

- 18 -

CLAIMS:

1. A motor comprising:

a first housing having a radius which is greater than the width of the housing;

a second housing having an opening therein in which the first housing is at least partially located, wherein either of the first or second housings is able to rotate with respect to the other housing; and

a plurality of magnets located around a perimeter of either the first or the second housing, wherein the magnetic force of magnets causes the one housing to rotate with respect to the other housing.

- 2. A motor according to claim 1 further including a plurality of magnets located around a perimeter of the other of the first or second housing.**
- 3. A motor according to claim 2 wherein the magnets located on the first housing are of alternating polarities.**
- 4. A motor according to claim 2 wherein the magnets located on the second housing are of alternating polarities.**
- 5. A motor according to claim 2 wherein the magnets located on the first housing are of the same polarity.**
- 6. A motor according to claim 2 wherein the magnets located on the first housing are of the same polarity.**

- 19 -

7. A motor according to any preceding claim wherein the magnets are permanent magnets and/or electromagnets.
8. A motor according to any preceding claim wherein the first housing has a ratio of radius to width of at least 2:1.
9. A motor according to claim 8 wherein the first housing has a ratio of radius to width of at least 8:1.
10. A motor according to any of claims 2 to 9 wherein the angle of the forces acting between adjacent ones of the magnets on the first housing and the magnets on the second housing does not exceed 25 degrees.
11. A motor according to any preceding claim wherein the first housing is able to move with respect to the second housing and wherein the interior of the first housing is formed into a plurality of propeller blades.
12. A motor according to any preceding claim wherein all of the magnets are energized simultaneously when the motor is in use.
13. A motor according to any of claims 2 to 12 wherein both poles of the magnets on either the first or second housing act simultaneously on the magnets of the other housing.
14. A motor according to claim 1 wherein an induction force is applied on both surfaces of the first housing, perpendicular to an axis of the housing.

- 20 -

15. A motor comprising:

a first housing connected to an axis about which it is able to rotate;

a second housing having an opening therein;

a plurality of magnets connected around a perimeter of the first housing, wherein the plurality of magnets are of alternating polarities, wherein when the first housing connected to the axis rotates, the plurality of magnets pass sequentially through the opening in the second housing; and

a plurality of magnets connected to the second housing on either side of the opening.

16. A motor according to any preceding claim wherein the motor forms the wheel of a motor vehicle.